ELSEVIER

Journal of Organometallic Chemistry 586 (1999) 269

Journal of Organometallic Chemistry

Author Index of Volume 586

Abele, E., 184
Abele, R., 184
Akiba, K.-y., 171
Alper, H., 61
Aris, D.R., 138

Bajpai, S., 119
Bakos, J., 70
Barker, J., 138
Barluenga, J., 247
Bauer, A., 23
Benedek, C., 85
Blacker, N.C., 138
Bo, C., 125
Bockman, T.M., 41
Boese, R., 61
Bômont, C., 208
Bor, G., 18
Brumaghim, J.L., 258
Butcher, R.J., 119

Capps, K.B., 23
Cenini, S., 190
Chan, A.S.C., 159
Claver, C., 125
Coles, S.J., 234
Cornia, A., 61
Coutrot, P., 208
Cserépi-Szűcs, S., 70
Csók, Z., 79

Demartin, F., 190
Deng, J., 159
Dinya, Z., 106
Dirnens, V., 200

Erker, G., 218
Errington, W., 138

Fañanás, F.J., 247
Faulds, P., 234
Frenzel, U., 263
Fröhlich, R., 218

Gallo, E., 190
Garralda, M.A., 150
Garst, J.F., 41
Girolami, G.S., 258
Grison, C., 208
Gyarmati, J., 106

Hajdu, C., 106
Heck, J., 111
Heil, B., 85, 101
Hernández, R., 150
Herrmann, W.A., 263
Hoff, C.D., 23
Horváth, J., 94
Hursthouse, M.B., 234
Huttner, G., 70

Ignatyev, I.S., 241

Jiang, Y., 159
J. Kohl, F., 263

Kaya, C., 254
Keglevich, G., 79, 166
Kelly, D.G., 234
Kemme, A., 200
Keserű, G.M., 166
King, R.B., 2
Kiss, G., 23
Kleinpeter, E., 61
Knüppel, S., 218
Kochina, T.A., 241
Kollár, L., 79, 94
Körnich, J., 111
Kovács, I., 31
Kumar Lahiri, G., 176

Ladipo, F.T., 223
Li, Z., 159
Lukevics, E., 184, 200

Maria Poblet, J., 125
Mazeika, I., 184
Mi, A., 159
Micskei, K., 106
Moiseev, I.I., 196
Moretó, J.M., 247
Munshi, P., 176

Nagy, E., 101
Net, G., 125
Nuyken, O., 263

Ozerov, O.V., 223

Pályi, G., 61, 106
Pàmies, O., 125
Pares, J., 247
Petőcz, G., 79
Phillips, P.R., 138
Pinilla, E., 150
Pokrovska, N., 200
Popelis, J., 184, 200

Ragaini, F., 190
Ranger, G.C., 234
Rath, N.P., 223
Ricart, S., 247
Rubina, K., 184
Ruiz, A., 125

Samanta, R., 176
Sassian, M., 145
Schattenmann, W.C., 263
Shaver, A., 31
Sheldon, R.A., 196
Sisak, A., 48
Skoda-Földes, R., 94
Sóvágó, J., 54
Srivastava, P.C., 119
Szalontai, G., 54

Tannenbaum, R., 18
Toner, A.J., 234
Tőrös, S., 85, 101
Torres, M.R., 150
Toyota, K., 171
Tuba, Z., 94
Tuulmets, A., 145

Ungváry, F., 41, 54

Verspui, G., 196
Vrazhnov, D.A., 241

Walker, N.M., 234
Wallbridge, M.G.H., 138
Weskamp, T., 263

Xue, S., 159

Yamamoto, Y., 171
Yu, K., 159

Zicmane, I., 200
Zsolnai, L., 70
Zucchi, C., 61, 106

PII: S0022-328X(99)00365-4

ELSEVIER

Journal of Organometallic Chemistry 586 (1999) 271–275

Journal of Organometallic Chemistry

Subject Index of Volume 586

Aldehydes
Silylations of α,β-unsaturated and aromatic carbonyl compounds with cobalt carbonyls, 48
Alkenylcobalt carbonyl
Reaction of cobalt tetracarbonyl hydride with phenylacetylene, 41
Alkenylphosphine
Reactivity of BH_3 and 9-BBN towards palladium(II) complexes of diphenylvinyl- and diphenylallyl-phosphine; X-ray structures of $[PdCl_2(PPh_2CH_2CH_2CH_3)]_2$ and $[PdCl_2(PPh_2CH_2CH{=}CH_2)]_2$, 234
Amidinato
N,N'-Unsubstituted amidinato metallacycle complexes of Group 13 metal alkyls: the crystal structure of trimeric $[\{Me_2Al(\mu\text{-}HNCPhNH)\}_3]$, 138
Aminoquinoline
Chloro(3- or 5-aminoquinoline)rhodium(I) organocomplexes showing N–H···Cl and C–H···Rh weak interactions, 150
Aqueous-phase catalysis
Reaction intermediates in the Pd/tppts-catalyzed aqueous phase hydrocarboxylation of olefins monitored by NMR spectroscopy (tppts = $P(C_6H_4\text{-}m\text{-}SO_3Na)_3$), 196
Aromatic carbonyl compounds
Silylations of α,β-unsaturated and aromatic carbonyl compounds with cobalt carbonyls, 48
Aryl and hetaryl acetylenes
Fluoride-ion-mediated reactions of trimethylsilylacetylene with carbonyl compounds and terminal acetylenes, 184
Aryloxide ligand
Synthesis, characterization, and reactivity of titanium(IV) complexes supported by proximally bridged *p-tert*-butylcalix[4]arene ligands, 223
Asymmetric reduction
Asymmetric induction by amino acid ligands in chromium(II)-assisted reduction of ketones, 106

Benzylcobalt carbonyls
Preparation and molecular structures of benzyl- and phenylacetylcobalt carbonyls, 61
Bidentate ligand
Synthesis and crystal structure of a rhodium(III) complex bearing a hypervalent phosphorus(V) ligand as a bidentate ligand and equilibrium between bidentate and monodentate structures in solution, 171
Bis(cyclopentadienyl) bridged complexes
Derivatisierung der Brückenfunktion in homo- und heterodinucleraren μ-Bis(cyclopentadiendiyl)keton-Komplexen: Stereogenes Kohlenstoffatom und Vinyliden als Brücken zwischen zwei Cp-Liganden, 111
Borabicyclononane
Reactivity of BH_3 and 9-BBN towards palladium(II) complexes of diphenylvinyl- and diphenylallyl-phosphine; X-ray structures of $[PdCl_2(PPh_2CH_2CH_2CH_3)]_2$ and $[PdCl_2(PPh_2CH_2CH{=}CH_2)]_2$, 234

Calix[4]arene ligand
Synthesis, characterization, and reactivity of titanium(IV) complexes supported by proximally bridged *p-tert*-butylcalix[4]arene ligands, 223
Carbene complexes
Influence of the presence of heteroatoms in the olefin chain on the Pauson–Khand reaction with metal (Cr, W) carbene enyne complexes, 247
Carbohydrate derivatives
Synthesis of Rh(I) and Ir(I) metal complexes with the first two chiral dithiolate ligands derived from carbohydrates, 125
Carbonyl
Synthesis and characterization of $FvW_2(CO)_4L_2(SR)_2$ (L = CO, PPh_2Me; R = H, *i*-Pr, CH_2Ph, Ph) type (fulvalene)tungsten dihydrosulfides and dithiolates, 31
Carbonylation
Comparative investigation of the regioselectivity in styrene and α-methylstyrene hydroalkoxycarbonylation as a function of palladium catalyst structure, 85
Carbonylation reactions
Investigation of the reactivity of palladium(0) complexes with nitroso compounds: relevance to the palladium–phenanthroline catalysed carbonylation reactions of nitroarenes, 190
Carbonyl compounds
Fluoride-ion-mediated reactions of trimethylsilylacetylene with carbonyl compounds and terminal acetylenes, 184
Carboxylate
Synthesis, spectroscopic characterisation of 1,1,2,3,4,5-hexahydro-1,1-dicarboxylatotellurophenes and crystal structures of 1,1,2,3,4,5-hexahydro-1,1-di(benzoato)- and 1,1-di(4-nitrobenzoato)tellurophene, 119
Catalysis
Asymmetric hydroformylation of styrene using rhodium and platinum complexes of diphosphites containing atropisomeric backbones and chiral 1,3,2-dioxaphosphorinane moieties, 70
Comparative investigation of the regioselectivity in styrene and α-methylstyrene hydroalkoxycarbonylation as a function of palladium catalyst structure, 85
Chiral dithiolates
Synthesis of Rh(I) and Ir(I) metal complexes with the first two chiral dithiolate ligands derived from carbohydrates, 125
Chirality
Asymmetric hydroformylation catalyzed by rhodium(I) complexes of novel chiral spiro ligands, 159
Chromium
Asymmetric induction by amino acid ligands in chromium(II)-assisted reduction of ketones, 106
The rate and mechanism of oxidative addition of H_2 to the $^{\cdot}Cr(CO)_3C_5Me_5$ radical—generation of a model for reaction of H_2 with the $^{\cdot}Co(CO)_4$ radical, 23
Chromiun
Homogeneous transition metal catalysis: from the water gas shift reaction to nuclear waste vitrification, 2

PII: S0022-328X(99)00366-6

CIDNP
Reaction of cobalt tetracarbonyl hydride with phenylacetylene, 41
Cobalt
Derivatisierung der Brückenfunktion in homo- und heterodinucleraren μ-Bis(cyclopentadiendiyl)keton-Komplexen: Stereogenes Kohlenstoffatom und Vinyliden als Brücken zwischen zwei Cp-Liganden, 111
Selected reactions of cobalt carbonyl complexes placed under vacuum conditions, 18
Silylations of α,β-unsaturated and aromatic carbonyl compounds with cobalt carbonyls, 48
The rate and mechanism of oxidative addition of H_2 to the $^{\cdot}Cr(CO)_3C_5Me_5$ radical—generation of a model for reaction of H_2 with the $^{\cdot}Co(CO)_4$ radical, 23
Cobalt tetracarbonyl hydride
Reaction of cobalt tetracarbonyl hydride with phenylacetylene, 41
CO-factored force field
Direct calculation of CO-factored force constants from $^{12}C^{16}O$ stretching frequencies in $LM(CO)_4$ molecules with C_{3v} symmetry, 254
Cyclo-addition
Addition of nitrile oxides to 2,3-dihydrofurylsilanes. Crystal and molecular structure of tetrahydrofuro-[2,3-*d*]-isoxazolylsilanes, 200
Cyclodimerization
Stereospecific cyclodimerization of 1-methylphosphole 1-oxide: a theoretical study, 166

DFT molecular orbital calculations
Synthesis of Rh(I) and Ir(I) metal complexes with the first two chiral dithiolate ligands derived from carbohydrates, 125
Diastereomeric η^3-allyl-cobalt complexes
Solution- and solid-state NMR study of intermediate η^3-allyl-cobalt tricarbonyl type complexes in 3-methyl-1,2-butadiene polymerization, 54
Dienamine formation
Formation of functionalized [3]ferrocenophane derivatives by an enamine condensation reaction, 218
Diethylsilylium cation
Radiochemical study of the reaction between the diethylsilylium cation and benzene in gas and liquid phases: experimental and theoretical evidence for rearrangements of the diethylsilylium cation, 241
Dihydrofurylsilanes
Addition of nitrile oxides to 2,3-dihydrofurylsilanes. Crystal and molecular structure of tetrahydrofuro-[2,3-*d*]-isoxazolylsilanes, 200
Diphosphite
Asymmetric hydroformylation of styrene using rhodium and platinum complexes of diphosphites containing atropisomeric backbones and chiral 1,3,2-dioxaphosphorinane moieties, 70

Electronic effects
Influence of the presence of heteroatoms in the olefin chain on the Pauson–Khand reaction with metal (Cr, W) carbene enyne complexes, 247
Enamine condensation reaction
Formation of functionalized [3]ferrocenophane derivatives by an enamine condensation reaction, 218
Enephosphoramide
A general synthesis of 2- or 3-alkyl substituted 5-hydroxymethyl-δ-valerolactones, precursors of 5-formyl-δ-valerolactones, via lithiated *N*-allyl(bisdimethylamino)-*N*-methylphosphoramide carbanions, 208
EPR
Paramagnetic ruthenium(III) *ortho*-metallated complexes. Synthesis, spectroscopic and redox properties, 176
Equilibrium
Synthesis and crystal structure of a rhodium(III) complex bearing a hypervalent phosphorus(V) ligand as a bidentate ligand and equilibrium between bidentate and monodentate structures in solution, 171

Ferrocene
Formation of functionalized [3]ferrocenophane derivatives by an enamine condensation reaction, 218
[3]Ferrocenophane synthesis
Formation of functionalized [3]ferrocenophane derivatives by an enamine condensation reaction, 218
Fluoride ion
Fluoride-ion-mediated reactions of trimethylsilylacetylene with carbonyl compounds and terminal acetylenes, 184
Fluxionality
Chloro(3- or 5-aminoquinoline)rhodium(I) organocomplexes showing N–H···Cl and C–H···Rh weak interactions, 150
Force constants
Direct calculation of CO-factored force constants from $^{12}C^{16}O$ stretching frequencies in $LM(CO)_4$ molecules with C_{3v} symmetry, 254
Free-radical reaction
Reaction of cobalt tetracarbonyl hydride with phenylacetylene, 41
Free radicals
The rate and mechanism of oxidative addition of H_2 to the $^{\cdot}Cr(CO)_3C_5Me_5$ radical—generation of a model for reaction of H_2 with the $^{\cdot}Co(CO)_4$ radical, 23
Fulvalene
Synthesis and characterization of $FvW_2(CO)_4L_2(SR)_2$ (L = CO, PPh_2Me; R = H, *i*-Pr, CH_2Ph, Ph) type (fulvalene)tungsten dihydrosulfides and dithiolates, 31

Grignard reaction
Reactions of partially solvated Grignard reagents with a ketone, 145
Grignard reagents
Reactions of partially solvated Grignard reagents with a ketone, 145
Group 13
N,N'-Unsubstituted amidinato metallacycle complexes of Group 13 metal alkyls: the crystal structure of trimeric $[\{Me_2Al(\mu\text{-}HNCPhNH)\}_3]$, 138
Group 8
An unusual norbornadiene coupling product: synthesis, characterization, and structure of the ruthenocene $(C_5Me_5)Ru(\eta^5\text{-}C_5H_4C_9H_{11})$, 258

Heterodinuclear complexes
Derivatisierung der Brückenfunktion in homo- und heterodinucleraren μ-Bis(cyclopentadiendiyl)keton-Komplexen: Stereogenes Kohlenstoffatom und Vinyliden als Brücken zwischen zwei Cp-Liganden, 111
Homodinuclear complexes
Derivatisierung der Brückenfunktion in homo- und heterodinucleraren μ-Bis(cyclopentadiendiyl)keton-Komplexen: Stereogenes Kohlenstoffatom und Vinyliden als Brücken zwischen zwei Cp-Liganden, 111
Homogeneous catalysis
Homogeneous catalytic hydroaminomethylation of steroids with aminoalcohols, 101
N-Heterocyclic carbenes: application of ruthenium–alkylidene complexes in ring-opening metathesis polymerization, 263
Homogenous catalysis
Homogeneous transition metal catalysis: from the water gas shift reaction to nuclear waste vitrification, 2
Hydroboration
Reactivity of BH_3 and 9-BBN towards palladium(II) complexes of diphenylvinyl- and diphenylallyl-phosphine; X-ray structures of $[PdCl_2(PPh_2CH_2CH_2CH_3)]_2$ and $[PdCl_2(PPh_2CH_2\text{-}CH{=}CH_2)]_2$, 234

Hydrocarboxylation
Reaction intermediates in the Pd/tppts-catalyzed aqueous phase hydrocarboxylation of olefins monitored by NMR spectroscopy (tppts = $P(C_6H_4$-*m*-$SO_3Na)_3$), 196
Hydroformylation
Asymmetric hydroformylation catalyzed by rhodium(I) complexes of novel chiral spiro ligands, 159
Asymmetric hydroformylation of styrene using rhodium and platinum complexes of diphosphites containing atropisomeric backbones and chiral 1,3,2-dioxaphosphorinane moieties, 70
Coordination chemistry and hydroformylation activity of platinum complexes containing 1-aryl-phospholes, 79
Reaction of cobalt tetracarbonyl hydride with phenylacetylene, 41
Hydroformylation–aminomethylation
Homogeneous catalytic hydroaminomethylation of steroids with aminoalcohols, 101
Hydrogen
The rate and mechanism of oxidative addition of H_2 to the $^{\cdot}Cr(CO)_3C_5Me_5$ radical—generation of a model for reaction of H_2 with the $^{\cdot}Co(CO)_4$ radical, 23
Hydrogenation
Homogeneous transition metal catalysis: from the water gas shift reaction to nuclear waste vitrification, 2
Hydrogen bonding
Chloro(3- or 5-aminoquinoline)rhodium(I) organocomplexes showing N–H···Cl and C–H···Rh weak interactions, 150
Hydrosulfide
Synthesis and characterization of $FvW_2(CO)_4L_2(SR)_2$ (L = CO, PPh_2Me; R = H, *i*-Pr, CH_2Ph, Ph) type (fulvalene)tungsten dihydrosulfides and dithiolates, 31
Hypervalent phosphorus ligand
Synthesis and crystal structure of a rhodium(III) complex bearing a hypervalent phosphorus(V) ligand as a bidentate ligand and equilibrium between bidentate and monodentate structures in solution, 171

Infrared spectra
Direct calculation of CO-factored force constants from $^{12}C^{16}O$ stretching frequencies in $LM(CO)_4$ molecules with C_{3v} symmetry, 254
Iodo-alkene
Homogeneous coupling and carbonylation reactions of steroids possessing iodoalkene moieties. Catalytic and mechanistic aspects, 94
Iridium(I)
Synthesis of Rh(I) and Ir(I) metal complexes with the first two chiral dithiolate ligands derived from carbohydrates, 125
Iron
Derivatisierung der Brückenfunktion in homo- und heterodinuclearen μ-Bis(cyclopentadiendiyl)keton-Komplexen: Stereogenes Kohlenstoffatom und Vinyliden als Brücken zwischen zwei Cp-Liganden, 111
Homogeneous transition metal catalysis: from the water gas shift reaction to nuclear waste vitrification, 2
Isomerism
Synthesis and characterization of $FvW_2(CO)_4L_2(SR)_2$ (L = CO, PPh_2Me; R = H, *i*-Pr, CH_2Ph, Ph) type (fulvalene)tungsten dihydrosulfides and dithiolates, 31

Ketones
Asymmetric induction by amino acid ligands in chromium(II)-assisted reduction of ketones, 106
Silylations of α,β-unsaturated and aromatic carbonyl compounds with cobalt carbonyls, 48

Lithium reagents
A general synthesis of 2- or 3-alkyl substituted 5-hydroxymethyl-δ-valerolactones, precursors of 5-formyl-δ-valerolactones, via lithiated *N*-allyl(bisdimethylamino)-*N*-methylphosphoramide carbanions, 208

Mechanism
Comparative investigation of the regioselectivity in styrene and α-methylstyrene hydroalkoxycarbonylation as a function of palladium catalyst structure, 85
Metal carbonyls
Selected reactions of cobalt carbonyl complexes placed under vacuum conditions, 18
Metallacycle
N,N'-Unsubstituted amidinato metallacycle complexes of Group 13 metal alkyls: the crystal structure of trimeric $[\{Me_2Al(\mu$-$HNCPhNH)\}_3]$, 138
Metal–metal bond
Derivatisierung der Brückenfunktion in homo- und heterodinuclearen μ-Bis(cyclopentadiendiyl)keton-Komplexen: Stereogenes Kohlenstoffatom und Vinyliden als Brücken zwischen zwei Cp-Liganden, 111
Molecular structures
Preparation and molecular structures of benzyl- and phenylacetylcobalt carbonyls, 61
Molybdenum
Homogeneous transition metal catalysis: from the water gas shift reaction to nuclear waste vitrification, 2

N-Heterocyclic carbene
N-Heterocyclic carbenes: application of ruthenium–alkylidene complexes in ring-opening metathesis polymerization, 263
Nitrile oxides
Addition of nitrile oxides to 2,3-dihydrofurylsilanes. Crystal and molecular structure of tetrahydrofuro-[2,3-*d*]-isoxazolylsilanes, 200
Nitroarenes
Investigation of the reactivity of palladium(0) complexes with nitroso compounds: relevance to the palladium–phenanthroline catalysed carbonylation reactions of nitroarenes, 190
NMR
Coordination chemistry and hydroformylation activity of platinum complexes containing 1-aryl-phospholes, 79
Norbornadiene
An unusual norbornadiene coupling product: synthesis, characterization, and structure of the ruthenocene $(C_5Me_5)Ru(\eta^5$-$C_7H_4C_9H_{11})$, 258
Nozaki–Hiyama–Kishi reaction
Asymmetric induction by amino acid ligands in chromium(II)-assisted reduction of ketones, 106
Nuclear waste treatment
Homogeneous transition metal catalysis: from the water gas shift reaction to nuclear waste vitrification, 2

2,3-*O*-Isopropylidene glycerol
A general synthesis of 2- or 3-alkyl substituted 5-hydroxymethyl-δ-valerolactones, precursors of 5-formyl-δ-valerolactones, via lithiated *N*-allyl(bisdimethylamino)-*N*-methylphosphoramide carbanions, 208
Olefin metathesis
N-Heterocyclic carbenes: application of ruthenium–alkylidene complexes in ring-opening metathesis polymerization, 263
Olefin polymerization
Synthesis, characterization, and reactivity of titanium(IV) complexes supported by proximally bridged *p-tert*-butylcalix[4]arene ligands, 223

Ortho-metallation
Paramagnetic ruthenium(III) *ortho*-metallated complexes. Synthesis, spectroscopic and redox properties, 176
Oxidative addition
Homogeneous coupling and carbonylation reactions of steroids possessing iodoalkene moieties. Catalytic and mechanistic aspects, 94
The rate and mechanism of oxidative addition of H_2 to the $^{\cdot}Cr(CO)_3C_5Me_5$ radical—generation of a model for reaction of H_2 with the $^{\cdot}Co(CO)_4$ radical, 23

Palladium
Comparative investigation of the regioselectivity in styrene and α-methylstyrene hydroalkoxycarbonylation as a function of palladium catalyst structure, 85
Homogeneous coupling and carbonylation reactions of steroids possessing iodoalkene moieties. Catalytic and mechanistic aspects, 94
Investigation of the reactivity of palladium(0) complexes with nitroso compounds: relevance to the palladium–phenanthroline catalysed carbonylation reactions of nitroarenes, 190
Reaction intermediates in the Pd/tppts-catalyzed aqueous phase hydrocarboxylation of olefins monitored by NMR spectroscopy (tppts = $P(C_6H_4$-*m*-$SO_3Na)_3$), 196
Palladium(II)
Reactivity of BH_3 and 9-BBN towards palladium(II) complexes of diphenylvinyl- and diphenylallyl-phosphine; X-ray structures of $[PdCl_2(PPh_2CH_2CH_2CH_3)]_2$ and $[PdCl_2(PPh_2CH_2$-$CH{=}CH_2)]_2$, 234
Paramagnetic
Paramagnetic ruthenium(III) *ortho*-metallated complexes. Synthesis, spectroscopic and redox properties, 176
Pauson–Khand cycloadditions
Influence of the presence of heteroatoms in the olefin chain on the Pauson–Khand reaction with metal (Cr, W) carbene enyne complexes, 247
Phenanthroline
Investigation of the reactivity of palladium(0) complexes with nitroso compounds: relevance to the palladium–phenanthroline catalysed carbonylation reactions of nitroarenes, 190
Phenylacetylcobalt carbonyls
Preparation and molecular structures of benzyl- and phenylacetylcobalt carbonyls, 61
Phenylacetylene
Reaction of cobalt tetracarbonyl hydride with phenylacetylene, 41
Phosphine
Homogeneous coupling and carbonylation reactions of steroids possessing iodoalkene moieties. Catalytic and mechanistic aspects, 94
Synthesis and characterization of $FvW_2(CO)_4L_2(SR)_2$ (L = CO, PPh_2Me; R = H, *i*-Pr, CH_2Ph, Ph) type (fulvalene)tungsten dihydrosulfides and dithiolates, 31
Phosphine–borane
Reactivity of BH_3 and 9-BBN towards palladium(II) complexes of diphenylvinyl- and diphenylallyl-phosphine; X-ray structures of $[PdCl_2(PPh_2CH_2CH_2CH_3)]_2$ and $[PdCl_2(PPh_2CH_2$-$CH{=}CH_2)]_2$, 234
Phosphole
Coordination chemistry and hydroformylation activity of platinum complexes containing 1-aryl-phospholes, 79
Phosphole oxide
Stereospecific cyclodimerization of 1-methylphosphole 1-oxide: a theoretical study, 166
Platinum
Asymmetric hydroformylation of styrene using rhodium and platinum complexes of diphosphites containing atropisomeric backbones and chiral 1,3,2-dioxaphosphorinane moieties, 70
Coordination chemistry and hydroformylation activity of platinum complexes containing 1-aryl-phospholes, 79

Radiochemical
Radiochemical study of the reaction between the diethylsilylium cation and benzene in gas and liquid phases: experimental and theoretical evidence for rearrangements of the diethylsilylium cation, 241
Rearrangements
Radiochemical study of the reaction between the diethylsilylium cation and benzene in gas and liquid phases: experimental and theoretical evidence for rearrangements of the diethylsilylium cation, 241
Rhodium
Asymmetric hydroformylation of styrene using rhodium and platinum complexes of diphosphites containing atropisomeric backbones and chiral 1,3,2-dioxaphosphorinane moieties, 70
Chloro(3- or 5-aminoquinoline)rhodium(I) organocomplexes showing N–H···Cl and C–H···Rh weak interactions, 150
Homogeneous transition metal catalysis: from the water gas shift reaction to nuclear waste vitrification, 2
Rhodium catalyst
Homogeneous catalytic hydroaminomethylation of steroids with aminoalcohols, 101
Rhodium complex
Synthesis and crystal structure of a rhodium(III) complex bearing a hypervalent phosphorus(V) ligand as a bidentate ligand and equilibrium between bidentate and monodentate structures in solution, 171
Rhodium(I)
Synthesis of Rh(I) and Ir(I) metal complexes with the first two chiral dithiolate ligands derived from carbohydrates, 125
Ring-opening metathesis polymerization
An unusual norbornadiene coupling product: synthesis, characterization, and structure of the ruthenocene $(C_5Me_5)Ru(\eta^5$-$C_5H_4C_9H_{11})$, 258
N-Heterocyclic carbenes: application of ruthenium–alkylidene complexes in ring-opening metathesis polymerization, 263
Ruthenium
An unusual norbornadiene coupling product: synthesis, characterization, and structure of the ruthenocene $(C_5Me_5)Ru(\eta^5$-$C_5H_4C_9H_{11})$, 258
Derivatisierung der Brückenfunktion in homo- und heterodinuclearen μ-Bis(cyclopentadiendiyl)keton-Komplexen: Stereogenes Kohlenstoffatom und Vinyliden als Brücken zwischen zwei Cp-Liganden, 111
N-Heterocyclic carbenes: application of ruthenium–alkylidene complexes in ring-opening metathesis polymerization, 263
Ruthenocene
An unusual norbornadiene coupling product: synthesis, characterization, and structure of the ruthenocene $(C_5Me_5)Ru(\eta^5$-$C_5H_4C_9H_{11})$, 258
Ruthenuim(III)
Paramagnetic ruthenium(III) *ortho*-metallated complexes. Synthesis, spectroscopic and redox properties, 176

Schiff base
Paramagnetic ruthenium(III) *ortho*-metallated complexes. Synthesis, spectroscopic and redox properties, 176
Secondary bonds
Synthesis, spectroscopic characterisation of 1,1,2,3,4,5-hexahydro-1,1-dicarboxylatotellurophenes and crystal structures of 1,1,2,3,4,5-hexahydro-1,1-di(benzoato)- and 1,1-di(4-nitrobenzoato)tellurophene, 119

Semiempirical and ab initio calculations
Stereospecific cyclodimerization of 1-methylphosphole 1-oxide: a theoretical study, 166
Silanes
Addition of nitrile oxides to 2,3-dihydrofurylsilanes. Crystal and molecular structure of tetrahydrofuro-[2,3-*d*]-isoxazolylsilanes, 200
Silicon
Silylations of α,β-unsaturated and aromatic carbonyl compounds with cobalt carbonyls, 48
Silylation
Silylations of α,β-unsaturated and aromatic carbonyl compounds with cobalt carbonyls, 48
Solution- and solid-state NMR
Solution- and solid-state NMR study of intermediate η^1-allylcobalt tricarbonyl type complexes in 3-methyl-1,2-butadiene polymerization, 54
Solvation effects
Reactions of partially solvated Grignard reagents with a ketone, 145
Spiro ligands
Asymmetric hydroformylation catalyzed by rhodium(I) complexes of novel chiral spiro ligands, 159
Stereospecificity
Stereospecific cyclodimerization of 1-methylphosphole 1-oxide: a theoretical study, 166
Steric congestion
Coordination chemistry and hydroformylation activity of platinum complexes containing 1-aryl-phospholes, 79
Steric effects
Influence of the presence of heteroatoms in the olefin chain on the Pauson–Khand reaction with metal (Cr, W) carbene enyne complexes, 247
Steroid
Homogeneous catalytic hydroaminomethylation of steroids with aminoalcohols, 101
Steroids
Homogeneous coupling and carbonylation reactions of steroids possessing iodoalkene moieties. Catalytic and mechanistic aspects, 94
Structure
N,N'-Unsubstituted amidinato metallacycle complexes of Group 13 metal alkyls: the crystal structure of trimeric $[\{Me_2Al(\mu\text{-}HNCPhNH)\}_3]$, 138
Styrene
Reaction of cobalt tetracarbonyl hydride with phenylacetylene, 41
Substitution
Synthesis and characterization of $FvW_2(CO)_4L_2(SR)_2$ (L = CO, PPh_2Me; R = H, *i*-Pr, CH_2Ph, Ph) type (fulvalene)tungsten dihydrosulfides and dithiolates, 31

Tellurium
Synthesis, spectroscopic characterisation of 1,1,2,3,4,5-hexahydro-1,1-dicarboxylatotellurophenes and crystal structures of 1,1,2,3,4,5-hexahydro-1,1-di(benzoato)- and 1,1-di(4-nitrobenzoato)tellurophene, 119
Tetracarbonyls
Direct calculation of CO-factored force constants from $^{12}C^{16}O$ stretching frequencies in $LM(CO)_4$ molecules with C_{3v} symmetry, 254
Thiolate
Synthesis and characterization of $FvW_2(CO)_4L_2(SR)_2$ (L = CO, PPh_2Me; R = H, *i*-Pr, CH_2Ph, Ph) type (fulvalene)tungsten dihydrosulfides and dithiolates, 31
Thioxanthate
Synthesis and characterization of $FvW_2(CO)_4L_2(SR)_2$ (L = CO, PPh_2Me; R = H, *i*-Pr, CH_2Ph, Ph) type (fulvalene)tungsten dihydrosulfides and dithiolates, 31
Titanium(IV)
Synthesis, characterization, and reactivity of titanium(IV) complexes supported by proximally bridged *p-tert*-butylcalix[4]arene ligands, 223
tppts
Reaction intermediates in the Pd/tppts-catalyzed aqueous phase hydrocarboxylation of olefins monitored by NMR spectroscopy (tppts = $P(C_6H_4\text{-}m\text{-}SO_3Na)_3$), 196
Trimer
N,N'-Unsubstituted amidinato metallacycle complexes of Group 13 metal alkyls: the crystal structure of trimeric $[\{Me_2Al(\mu\text{-}HNCPhNH)\}_3]$, 138
Trimethylsilylacetylene
Fluoride-ion-mediated reactions of trimethylsilylacetylene with carbonyl compounds and terminal acetylenes, 184
Tungsten
Derivatisierung der Brückenfunktion in homo- und heterodinucleraren μ-Bis(cyclopentadiendiyl)keton-Komplexen: Stereogenes Kohlenstoffatom und Vinyliden als Brücken zwischen zwei Cp-Liganden, 111
Homogeneous transition metal catalysis: from the water gas shift reaction to nuclear waste vitrification, 2
Synthesis and characterization of $FvW_2(CO)_4L_2(SR)_2$ (L = CO, PPh_2Me; R = H, *i*-Pr, CH_2Ph, Ph) type (fulvalene)tungsten dihydrosulfides and dithiolates, 31

Vacuum conditions
Selected reactions of cobalt carbonyl complexes placed under vacuum conditions, 18
δ-Valerolactone
A general synthesis of 2- or 3-alkyl substituted 5-hydroxymethyl-δ-valerolactones, precursors of 5-formyl-δ-valerolactones, via lithiated *N*-allyl(bisdimethylamino)-*N*-methylphosphoramide carbanions, 208

Water gas shift reaction
Homogeneous transition metal catalysis: from the water gas shift reaction to nuclear waste vitrification, 2

X-ray structure
Asymmetric hydroformylation catalyzed by rhodium(I) complexes of novel chiral spiro ligands, 159
Investigation of the reactivity of palladium(0) complexes with nitroso compounds: relevance to the palladium–phenanthroline catalysed carbonylation reactions of nitroarenes, 190